



## “BDQ” “BDQB” NO-GO LOCK

The “BDQ” **Lock Mandrel** is a top no go lock used to locate and install flow controls and compatible with BDQ Landing Nipple profile. The BDQB Lock Mandrel is a bottom no-go version of the BDQ Lock Mandrel.

The BDQ and the BDQB Lock Mandrel are equally effective in both flowing and non-flowing application and can be customized to retrofit most third party nipple profile

It can also be adapted to be installed in any other manufacturer’s nipples in existing completion strings, e.g. safety valves, plugs, chokes, gauges, flow meters, etc.

### APPLICATIONS

Installation of all downhole flow controls, including one and two run plug, flow subs and pump open plugs

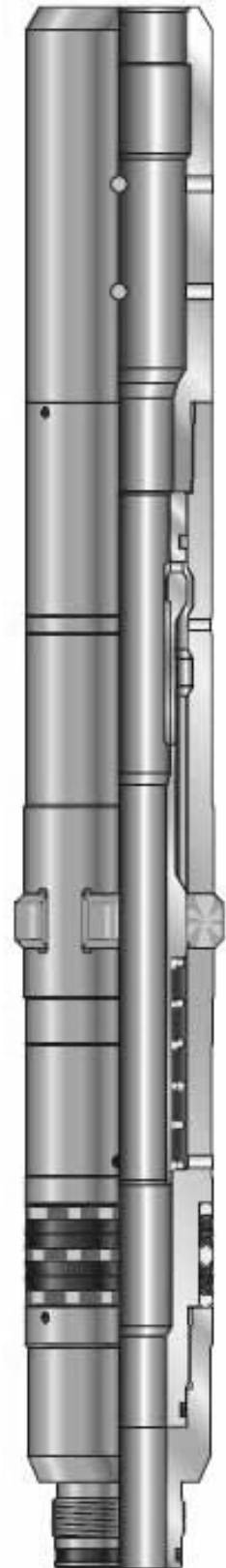
- Routine plugging for completion and workover operations
- Well suspension plug
- Ported nipple and sleeve packoffs
- Suspension of wireline-retrievable injection valves
- Venturi flow meter installation
- Suspension of recording instruments
- Riser maintenance plugs

### FEATURES

- Minimal downward jarring is required to set the lock mandrel, making the design particular service at 300°F (148.8°C) with standard seals.
- The lock and running tool are compatible with normal wireline equipment and procedures.
- Rigid outer mandrel maximizes the strength and impact resistance of the lock, ensuring exceptional reliability and recovery.

### ADVANTAGES

- Can be supplied to fit any seal bore in third party nipple sizes.
- The standard pressure rating is 10,000psi, however, also available in 15,000psi.
- Large sizes are available with ultra-light weight running tools to ease installation.
- The inner mandrel moves in the direction of flow to lock the keys out. There is no need for a secondary lock down mechanism to prevent flow induced vibration from unseating the lock mandrel. This makes the lock design the leader in safety and reliability in flowing well service.
- The lock mandrel design can be customized to maximise its through bore. This minimizes the well fluids velocity and hence the flowing pressure drop.
- The highly polished inner mandrel minimizes frictional pressure loss, and the tendency for scale adhesion.



**BDQ / BDQB  
No-Go Lock Mandrel**

Note: Specification provided are typical, however seal bore sizes are routinely customized for BDQ / BDQB Lock Mandrel to optimized the completion ID. Please contact our BDWS Sales representative. Material available other than 9CR-1MO.



# Black Diamond WELL SERVICES

Nipple	Lock Seal OD		Top No-Go Lock		Minimum ID		Conn POP Pin	Minimum ID at POP		Part Number	
	Inch	mm	Inch	mm	Inch	mm	Inch	Inch	mm	Top No-Go	Bottom No-Go
1.813	1.813	46.05	1.868	47.45	0.847	21.51	1.81 (10K)	0.937	23.80	LM181Q	LM181QB
1.875	1.875	47.63	1.930	49.02	0.847	21.51	1.81 (10K)	0.937	23.80	LM187Q	LM187QB
2.125	2.125	53.98	2.180	55.37	0.984	24.99	1.81 (10K)	0.937	23.80	LM212Q	LM212QB
2.235	2.235	56.77	2.290	58.17	0.984	24.99	1.81 (10K)	0.937	23.80	LM223Q	LM223QB
2.300	2.300	58.42	2.355	59.82	0.984	24.99	1.81 (10K)	0.937	23.80	LM230Q	LM230QB
2.480	2.480	62.99	2.535	64.39	1.150	29.21	2.25 (10K)	1.142	29.01	LM248Q	LM248QB
2.550	2.550	64.77	2.605	66.17	1.150	29.21	2.25 (10K)	1.142	29.01	LM255Q	LM255QB
2.562	2.562	65.07	2.617	66.47	1.150	29.21	2.25 (10K)	1.142	29.01	LM256Q	LM256QB
2.635	2.635	66.93	2.690	68.33	1.150	29.21	2.25 (10K)	1.142	29.01	LM263Q	LM263QB
2.650	2.650	67.31	2.705	68.71	1.150	29.21	2.25 (10K)	1.142	29.01	LM265Q	LM265QB
2.680	2.680	68.07	2.735	69.47	1.150	29.21	2.25 (10K)	1.142	29.01	LM268Q	LM268QB
2.750	2.750	69.85	2.805	71.25	1.591	40.41	2.75 (10K)	1.496	38.00	LM275Q	LM275QB
2.813	2.813	71.45	2.868	72.85	1.591	40.41	2.75 (10K)	1.496	38.00	LM231Q	LM231QB
3.125	3.125	79.38	3.180	80.77	1.799	45.69	2.75 (10K)	1.496	38.00	LM312Q	LM312QB
3.313	3.313	84.15	3.373	85.67	1.862	47.29	3.31 (10K)	1.850	46.99	LM331Q	LM331QB
3.437	3.437	87.30	3.497	88.82	1.862	47.29	3.31 (10K)	1.850	46.99	LM343Q	LM343QB
3.562	3.562	90.47	3.622	92.00	1.862	47.29	3.31 (10K)	1.850	46.99	LM356Q	LM356QB
3.625	3.625	92.08	3.685	93.60	1.862	47.29	3.31 (10K)	1.850	46.99	LM362Q	LM362QB
3.658	3.658	92.91	3.718	94.44	1.862	47.29	3.31 (10K)	1.850	46.99	LM365Q	LM365QB
3.688	3.688	93.68	3.748	95.20	2.203	55.96	3.31 (10K)	1.850	46.99	LM368Q	LM368QB
3.735	3.735	94.87	3.792	96.39	2.203	55.96	3.31 (10K)	1.850	46.99	LM373Q	LM373QB
3.750	3.750	95.25	3.812	96.77	2.203	55.96	3.31 (10K)	1.850	46.99	LM375Q	LM375QB
3.937	3.937	100.00	3.97	101.52	2.441	62.00	4.00 (10K)	2.362	59.99	LM393Q	LM393QB
4.000	4.000	101.60	4.060	103.12	2.441	62.00	4.00 (10K)	2.362	59.99	LM400Q	LM400QB
4.125	4.125	104.78	4.185	106.30	2.441	62.00	4.00 (10K)	2.362	59.99	LM412Q	LM412QB
4.250	4.250	107.95	4.310	109.47	2.441	62.00	4.00 (10K)	2.362	59.99	LM425Q	LM425QB
4.313	4.313	109.55	4.373	111.07	2.441	62.00	4.00 (10K)	2.362	59.99	LM431Q	LM431QB



**Black Diamond**  
WELL SERVICES

---

4.375	4.375	111.13	4.435	112.65	2.441	62.00	4.00 (10K)	2.362	59.99	LM437Q	LM437QB
-------	-------	--------	-------	--------	-------	-------	------------	-------	-------	--------	---------